

Index

A

animation
 flipbook
 advantages 7-79
 Auto Run Settings dialog 7-81
 created data 7-79
 definition 7-78
 disadvantages 7-79
 graphic image pages 7-78
 graphic object pages 7-78
 linear load 7-79
 mode shapes 7-79
 Save Pages To dialog 7-82
 transient data 7-79
 troubleshooting 7-83
 Flipbook Animation Editor 7-80
 Flipbook Animation Icon 7-80
 keyframe
 definition 7-84
 Keyframe Animation Editor 7-86
 Recorder dialog 7-88
 Transient Data Synchronization dialog 7-89
 troubleshooting 7-90
 Viewing Window dialog 7-88
 line clip animation delta 7-32
 particle trace 7-16
 troubleshooting 7-18
 plane clip animation delta 7-34
 quadric clip animation delta 7-36
 revolution clip animation delta 7-40
 saving and restoring frames 2-50
 Annot Mode 8-8
 annotation
 delete text, line or logo 8-15
 line arrowheads 8-12
 line creation 8-10
 line width 8-12
 logo importing 8-10
 logo size 8-12
 precise positioning 8-11
 preferences 6-6
 text creation 8-9
 text justification 8-11
 text rotation 8-11
 text size 8-11
 text, line, logo, legend color 8-10
 text, line, logo, legend visibility 8-10
 Annotation Item Location dialog 8-11
 Apple Pict output 2-45
 archive files 2-35
 Area variable 4-13
 auxiliary clipping
 by part 8-30
 global 8-6

global toggle 6-24
 troubleshooting 6-25, 8-7
 AVI output 2-45
 Axis Specific Attributes dialog 8-36
 axis triad
 global axis visibility toggle 6-25
 global frame visibility toggle 6-25

B

balloon help (Tool Tips) 5-4
 Boundary File
 format 11-141
 boundary layer thickness 7-111
 Boundary Layer Variables 7-110
 access 7-113
 boundary layer 7-110
 boundary surfaces 7-111
 define dependent variables 7-113
 definitions
 boundary layer thickness 7-111
 displacement thickness 7-111
 momentum thickness 7-111
 shape parameter 7-112
 skin friction coefficient 7-112
 method 7-113
 references 7-112
 velocity magnitude gradient 7-111
 Box Clip 7-38

C

Calculator operations in created variables 4-29
 case
 delete 6-36
 read data for new 6-36
 replace existing 6-36
 restrict list info to individual 6-37
 selecting a 6-37
 viewport visibility specification 6-37
 Case Map variable 4-13
 CEI
 email address 1-13
 telephone numbers 1-13
 clip
 interactive using Cone Tool 7-35
 interactive using Cylinder Tool 7-35
 interactive using IJK Tool 7-27
 interactive using Line Tool 7-31
 interactive using Plane Tool 7-33
 interactive using Sphere Tool 7-35
 interactive using XYZ Tool 7-29
 Clip Create/Update Icon 7-27
 Clip Editor 7-27

- clip part
 - creating and updating 7-27
 - creation by revolution of 1D part 7-41
 - creation troubleshooting 7-43
 - creation using cylinder tool 7-35
 - creation using general quadric equation 7-42
 - creation using IJK clip tool 7-27
 - creation using line tool 7-31
 - creation using plane tool 7-33
 - creation using quadric tool 7-35
 - creation using revolution tool 7-39
 - creation using sphere tool 7-35
 - creation using XYZ Box tool 7-38
 - creation using XYZ clip tool 7-29
 - definition 7-26
- Coefficient variable 4-13
- Collaboration
 - opening 6-2
 - Web Publishing 12-9
- color
 - by a variable 7-3
 - selection of constant 7-2, 7-3
- Color Editor 7-2
- Color Icon 7-2
- Color Palette preferences 6-6
- Color Selector Palette File format 10-4
- Command dialog 2-32
 - opening 6-2
- command files 2-32
- Command Line Parameter preferences 6-7
- Command Manual
 - opening 6-38
- Complex
 - Argument variable 4-13
 - Conjugate variable 4-13
 - Imaginary variable 4-14
 - Modulus variable 4-14
 - Real variable 4-14
 - Transient Response variable 4-14
- Complex variable 4-13
- Component tensor variable 4-27
- cone tool
 - positioning 6-33
 - visibility toggle 6-28
- Connect Server dialog
 - opening 6-2
- Connection Information File format 10-3
- Context Files 2-37
 - restoring 2-37
 - saving 2-37
- Context files
 - restoring 6-3
 - saving 6-3
- Contour Create/Update Icon 7-5
- Contour Editor 7-5
- contour part
 - creating & updating 7-5
- creation 7-5
- creation troubleshooting 7-6
- description 7-4
- display offset 7-5
- Feature Detail Editor for 7-5
- subcontours 7-5
- Copy Transformation State 9-2
- Creation Attributes
 - Created Parts 3-10
 - IJK Node Ranges 3-9
 - Model Parts 3-9
- cross references in User Manual 1-12
- Curl variable 4-14
- cursor tool
 - positioning 6-29
 - visibility toggle 6-27
- Curve Specific Attributes dialog 8-38
- cylinder tool
 - positioning 6-32
 - visibility toggle 6-28

D

- data
 - Color Selector Palette file 10-4
 - Connection Information file 10-3
 - Data Reader Preferences file 10-8
 - Default False Color Map file format 10-6
 - Default Part Colors file 10-7
 - EnSight Gold case file format 11-30
 - EnSight Gold geometry file format 11-5
 - EnSight Gold variable file format 11-37
 - EnSight Gold Wild Card Name Specification 11-37
 - EnSight5 binary file writing 11-116
 - EnSight5 geometry file format 11-106
 - EnSight5 measured/particle file format 11-113
 - EnSight5 Part Loader dialog 2-16
 - EnSight5 result file format 11-110
 - EnSight5 variable file format 11-112
 - EnSight5 wild card specification 11-112
 - EnSight6 binary file writing 11-99
 - EnSight6 case file format 11-85
 - EnSight6 geometry file format 11-80
 - EnSight6 measured/particle file format 11-99
 - EnSight6 variable file format 11-92
 - exported from analysis codes 2-31
 - File Selection dialog 2-7, 6-2
 - formats 1-2
 - Function Palette file format 10-4
 - interfaces to 1-2
 - loading parts from EnSight5 data 2-16
 - loading parts from EnSight6/EnSight Gold data 2-9
 - loading parts from EnSight6/EnSight Gold Structured data 2-10
 - MPEG Paramters file 10-9
 - palette file formats 10-4
 - Parallel Rendering Configuration file 10-10
 - Preference file formats 10-1
 - reader types 1-2
 - reading ABAQUS data 2-17

- reading ANSYS data 2-18
- reading ESTET data 2-19
- reading FAST UNSTRUCTURED data 2-22
- reading FIDAP data 2-22
- reading FLUENT UNIVERSAL data 2-22
- reading Movie.BYU data 2-23
- reading MPGS4 data 2-24
- reading N3S data 2-25
- reading PLOT3D data 2-26
- supported elements 11-4, 11-79, 11-105
- transient 7-74
- translators 2-31
- troubleshooting loading of 2-6
- Window Position file 10-2
- Data Part Loader dialog**
 - opening 6-2
- Data preferences** 6-8
- Data Reader Preferences File Format** 10-8
- dataset query 6-21
- Default False Color Map File format** 10-6
- Default Part Colors File format** 10-7
- Density**
 - Normalized 4-15
 - Normalized (log of) 4-15
 - Normalized Stagnation 4-15
 - Stagnation 4-15
 - variable 4-14
- Desktop** 5-1
- Determinate tensor variable 4-27
- Developed Surface Create/Update Icon** 7-57
- developed surface part
 - creating and updating 7-57
 - definition 7-55
 - developed projection definition 7-56
 - Feature Detail Editor for 7-58
 - open Developed Surface Editor 7-57
 - troubleshooting 7-59
- Displacements Editor** 7-60
- Displacements On Parts Icon** 7-60
- displacement thickness 7-111
- Divergence variable 4-15
- documentation on-line guide 6-38
- E**
- Eigenvalue tensor variable 4-27
- Eigenvector tensor variable 4-27
- element**
 - global label visibility toggle 6-26
 - global label visibility 8-5
 - label visibility by part 8-30
 - query 6-20
 - representation 3-15
- Element to Node variable** 4-15
- elements**
 - supported 11-4, 11-79, 11-105
- Elevated Surface Create/Update Icon** 7-49
- Elevated Surface Editor** 7-49
- elevated surface part
 - creating and updating 7-49
 - definition 7-48
 - Feature Detail Editor for 7-50
 - troubleshooting 7-50
- email address for CEI 1-13
- EnLiten Output** 12-9
 - scenario files 2-40
- EnSight**
 - documentation 1-11
 - gui overview 5-1
 - version in use 6-38
- EnSight Data Formats** 11-1
 - Boundary File Format** 11-141
 - EnSight Gold Format** 11-2
 - casefile 11-30
 - geometry file 11-5
 - measured/particle file 11-76
 - partial variable values format 11-72
 - per_element variable file 11-54
 - per_node variable file 11-37
 - supported elements 11-4
 - transient single files 11-35
 - undefined variable values format 11-68
 - variable files 11-37
 - wild card name specification 11-37
 - EnSight5 Format** 11-104
 - geometry file 11-106
 - measured/particle files 11-113
 - result file 11-110
 - supported elements 11-105
 - variable files 11-112
 - wild card name specification 11-112
 - writing binary files 11-116
 - EnSight6 Format** 11-78
 - casefile 11-85
 - geometry file 11-80
 - measured/particle file 11-99
 - per_element variable files 11-95
 - per_node variable files 11-92
 - supported elements 11-79
 - transient single files 11-90
 - variable files 11-92
 - wild card name specification 11-92
 - writing binary files 11-99
 - FAST UNSTRUCTURED Results File Format** 11-119
 - FLUENT UNIVERSAL Results File Format** 11-123
 - Movie.BYU Results File Format** 11-125
 - Periodic Matchfile Format** 11-136
 - PLOT3D Results File Format** 11-128
 - Server-of-Servers Casefile Format** 11-133
 - XY Plot Data File Format** 11-139
 - EnSight Environment**
 - saving 2-53
 - EnSight Gold Format** 11-2
 - EnSight5 Utility Programs** 12-2
 - Enthalpy**
 - Normalized 4-16

- Normalized Stagnation 4-17
 Stagnation 4-16
 variable 4-16
- Entropy variable 4-17
- EnVideo output 2-45
- ESTET Data Part Loader dialog 2-19
- ESTET Vector Builder dialog 2-19
- F**
- Fast Display representation 8-31
- FAST UNSTRUCTURED Results File format 11-119
- Feature Detail Editor
 for contour parts 7-5
 for developed surface parts 7-58
 for elevated surface parts 7-50
 for IJK clip parts 7-28, 7-38
 for isosurface parts 7-9
 for isovolume parts 7-9
 for line clip parts 7-32
 for particle trace parts 7-21
 for parts 6-4
 for plane clip parts 7-34
 for profile parts 7-53
 for quadric equation clip parts 7-42
 for quadric tool clip parts 7-36
 for revolution clip parts 7-40
 for subset parts 7-91
 for vector arrow parts 7-46
 for XYZ clip parts 7-30
 open for variables 7-3
- feature extraction
 boundary layer variables 7-110
 separation/attachment lines 7-106
 shock surfaces/regions 7-100
 vortex cores 7-96
- Feature Icon Bar 7-1
- file
 archiving 2-35
 Color Selector Palette file 10-4
 command 2-32
 command playback troubleshooting 2-33
 Connection Information file 10-3
 context 2-37
 Data Reader Preferences file 10-8
 default command saving 2-32, 2-34
 Default False Color Map file 10-6
 Default Part Colors file 10-7
 full backup saving 2-35
 full backup troubleshooting 2-36
 Function Palette file 10-4
 MPEG Paramters file 10-9
 palette file formats 10-4
 Parallel Rendering Configuration file 10-10
 scenario 2-40
 Window Position file 10-2
- File Selection dialog 2-7
 opening 6-2
- Filtered Relative Helicity variable 4-20
- Flipbook Animation Editor 7-80
 created data 7-79
 created load 7-80
 linear load 7-79, 7-80
 mode shape load 7-80
 mode shapes 7-79
 transient data 7-79
 transient load 7-80
- Flipbook Animation Icon 7-80
- Flow Rate variable 4-17
- Flow variable 4-17
- FLUENT UNIVERSAL Results File format 11-123
- Fluid Shear Stress Max variable 4-18
- Fluid Shear variable 4-18
- Force variable 4-19
- frame
 axis triad attributes 8-44
 axis triad color 8-43
 axis triad line width 8-43
 axis triad visibility 8-43
 computational symmetry 8-44
 coordinate system 8-46
 creation 8-42
 definition 9-13
 delete 8-49
 description 8-40
 global axis triad visibility 8-48
 global axis triad visibility toggle 6-25
 part assignment 8-43
 precise positioning 8-48
 transform 9-8
 rotation 9-9
 translation 9-10
 transformation type 8-49
 translation scale 9-11
- Frame Axis Attributes dialog 8-44
- Frame Computational Symmetry Attributes dialog 8-44
- Frame Mode 8-40
- Frame Transform 9-8
- full backup
 Restoring Full Backup Archive files 6-3
 Save Full Backup Archive dialog 6-3
- Function Palette File format 10-4
- G**
- General Attributes Feature Detail Editor 3-10
- General User Interface preferences 6-9
- geometric entities
 Save Geometric Entities dialog 6-3
 saving 2-42
 saving troubleshooting 2-43
- Getting Started Manual
 opening 6-38
- global axis
 triad visibility 8-7
 triad visibility toggle 6-25
- Gradient Approximation variable 4-19

Gradient Tensor Approximation variable 4-19
 Gradient Tensor variable 4-19
 Gradient variable 4-19
 graphic images 7-78
 graphic objects 7-78
 group operation 3-19
 GUI overview 5-1

H

Helicity (relative filtered) variable 4-20
 Helicity (relative) variable 4-20
 Helicity Density variable 4-19
 Help
 Main Menu button functions 6-38
 hidden line
 by part 8-28
 global toggle 6-23, 8-4
 overlay 8-4
 Hidden Line Overlay dialog 8-4
 How To Manual
 opening 6-38

I

Iblanking
 Creating Parts from ESTET 2-21
 Creating Parts from EnSight6 2-12
 Creating Parts from PLOT3D 2-29
 part creation 2-12
 Values in EnSight Gold 11-6
 Values in EnSight6 11-80
 Values in PLOT3D 11-128
 Iblanking Values variable 4-20
 Icon Bar Preferences dialog 6-9
 IJK clip part
 Feature Detail Editor for 7-28, 7-38
 interactive creation 7-27
 Image
 Saving and Printing preferences 6-10
 image
 output formats 2-45
 Print/Save Image dialog 6-2
 printing 2-45
 saving 2-45
 saving troubleshooting 2-48
 Integral
 Line 4-20
 Surface 4-20
 Volume 4-20
 Interactive Probe Query
 Display dialog 7-73
 Editor 7-72
 Icon 7-72
 IJK 7-72
 Node 7-72
 Point 7-72
 preferences 6-11

Surface 7-72
 XYZ 7-72
 Isosurface Create/Update Icon 7-8
 isosurface part
 creating and updating 7-8
 definition 7-7
 interactive creation 7-8
 open Feature Detail Editor for 7-9
 open Isosurface Editor 7-8
 isovolume part 7-9

J

JPEG output 2-45

K

key function assignment 12-8
 Keyboard Macro Maker 12-8
 Keyframe Animation 7-84
 Keyframe Animation Speed/Actions dialog 7-87
 Keyframe Transient Data Synchronization dialog 7-89
 Kinetic Energy variable 4-16

L

label
 global element visibility toggle 6-26
 global node visibility toggle 6-26
 legend
 color 8-10
 global visibility toggle 6-26
 label format 8-14
 label position 8-13
 Show Legend 8-15
 text size 8-14
 title position 8-13
 type 8-13
 Length variable 4-20
 License Agreement 6-38
 light source position 6-26
 lighting
 static lighting toggle 6-26
 line
 representation 3-15
 Line Integral variable 4-20
 line tool
 positioning 6-30
 visibility toggle 6-27
 Look At Point 9-19
 Look From Point 9-19

M

Mach Number variable 4-20
 macromake 12-8
 Main Menu
 Case button functions 6-36

- Edit button functions 6-4
 - File button functions 6-2
 - Help button functions 6-38
 - Query button functions 6-19
 - Tools button functions 6-27
 - View button functions 6-22
 - Make Vector variable 4-21
 - Mass-Flux Average variable 4-21
 - Math functions 4-28
 - Max variable 4-21
 - Min variable 4-21
 - Mode
 - Annot 8-8
 - Frame 8-40
 - Part 8-24
 - Plot 8-33
 - View 8-2
 - VPort 8-16
 - Moment variable
 - about a point 4-21
 - Vector 4-22
 - momentum thickness 7-111
 - Momentum variable 4-22
 - Mouse and Keyboard preferences 6-11
 - Movie.BYU Results File format 11-125
 - Movie.BYU Utility Programs 12-7
 - MPEG
 - output 2-45
 - Parameters File 10-9
 - MPGS4 Utility Programs 12-6
- N**
- N3S Part Creator dialog 2-25
 - node
 - display type 8-30
 - global label visibility 8-5
 - global label visibility toggle 6-26
 - label visibility by part 8-30
 - query 6-19
 - query (IJK) 6-20
 - Node to Element variable 4-22
 - Node/Element Labeling Attributes dialog 8-5
 - Normal Constraints variable 4-22
 - Normal vector variable 4-22
 - Normalize Vector variable 4-22
 - Nsided
 - Additional data for element block 11-13
- O**
- Offset Variable 4-22
 - on-line
 - Command Language Manual 6-38
 - documentation guide 6-38
 - Getting Started Manual 6-38
 - How To Manual 6-38
 - icon reference 6-38
 - license agreement 6-38
 - overview of EnSight 6-38
 - Release Notes 6-38
 - User Manual 6-38
 - orthographic view toggle 6-24
 - output formats 2-45
- P**
- Palette File format 10-4
 - Parallel Rendering
 - Configuration File 10-10
 - setup 2-54
 - part
 - assign color 7-2
 - auxiliary clipping 8-30
 - auxiliary clipping global 8-6
 - auxiliary clipping global toggle 6-24
 - computational symmetry in frame 8-44
 - Concepts 1-1
 - copy 3-20
 - created 3-2
 - creation of new 3-3
 - creation of new parts from ESTET iblanked data 2-21
 - creation of new parts from PLOT3D iblanked data 2-29
 - creation of new structured parts from iblanked data 2-12
 - Data Part Loader dialog 6-2
 - definition 3-1
 - delete 3-19
 - displacement 7-60
 - Displacement Attributes 3-16
 - displacement troubleshooting 7-61
 - Displacements Editor 7-60
 - display all in hidden line 6-23
 - editing 3-7
 - element bounding box representation 3-15
 - element label visibility 8-30
 - element visual representation 8-27
 - extract 3-21
 - fast display representation 8-31
 - frame assignment 8-43
 - General Attributes 3-10
 - global visibility 8-25
 - Group 3-19
 - hidden line 8-28
 - hidden surface 8-28
 - identification of 3-6
 - IJK refinement 3-9
 - Lighting 3-13
 - line width 8-26
 - Main Parts List 3-2
 - merge 3-21
 - mirror symmetry in frame 8-44
 - model 3-2
 - node display type 8-30
 - node label visibility 8-30
 - Node, Element, and Line Attributes 3-14
 - open Feature Detail for 6-4

operations on 3-18
 overview 3-2
 parent 3-2
 preferences 6-12
 query 6-20
 Query/Plot Editor 7-62
 reassign parent 3-2
 rotational symmetry in frame 8-45
 select all 3-18
 select by keyword 3-18
 selection of 3-6
 separation/attachment lines 7-106
 shock surfaces/regions 7-100
 symmetry 8-27
 translational symmetry in frame 8-45
 transparency 8-26
 types, symbols, and descriptions 3-3
 Ungroup 3-19
 visibility by viewport 8-26
 vortex core 7-96

Part Mode 8-24

Part Node Representation dialog 8-30

Part Transparency Modification dialog 8-26

Particle Trace Create/Update Icon 7-15

Particle Trace Editor 7-15

particle trace part

- animation 7-16
- troubleshooting 7-18
- creating and updating 7-15
- creation with transient data 7-12
- definition 7-11
- Emission Detail Attributes dialog 7-19
- emitter placement by picking 7-19
- emitters 7-11
- Feature Detail Editor for 7-21
- integration method 7-12
- interactive tracing 7-20
- surface-restricted definition 7-12
- troubleshooting 7-24

Paste Transformation State 9-2

PCL output 2-45

Performance preferences 6-13

Periodic Matchfile format 11-136

perspective view toggle 6-24

pick

- Center of Transformation location 8-25
- Cursor Tool location 8-25
- Line Tool location 8-25
- Look At Point 8-25
- part 8-25
- part position 8-25
- Plane Tool location 8-25

Pick Center of Transformation 8-25

plane tool

- appearance 6-27
- positioning 6-31
- visibility toggle 6-27

Plot Mode 8-33

plot queried data 7-64

PLOT3D

- Part Loader dialog 2-27
- Results File format 11-128

plotter

- attributes 8-34
- axis attributes 8-36
- curve attributes 8-38
- delete 8-39
- preferences 6-13
- visibility 8-34

Plotter Specific Attributes dialog 8-34

point query 6-19

Postscript output 2-45

Preference File Formats 10-1

Preference Functions

- icon bars 6-9

Preferences 6-6

- Annotation 6-6
- Color Palettes 6-6
- Command Line Parameters 6-7
- Data 6-8
- General User Interface 6-9
- Image Saving and Printing 6-10
- Interactive Probe Query 6-11
- Mouse and Keyboard 6-11
- Parts 6-12
- Performance 6-13
- Plotter 6-13
- Query 6-14
- User Defined Input 6-14
- Variables 6-16
- View 6-18

Pressure

- Coefficient 4-23
- Dynamic 4-23
- Normalized 4-23
- Normalized (Log of) 4-23
- Normalized Stagnation 4-24
- Pitot 4-24
- Pitot Ratio 4-25
- Stagnation 4-24
- Stagnation Coefficient 4-24
- Total 4-25
- variable 4-23

Print/Save Image dialog

- opening 6-2

Profile Create/Update Icon 7-52

Profile Editor 7-52

profile part

- creating and updating 7-52
- definition 7-51
- open Feature Detail Editor for 7-53
- troubleshooting 7-54

Project Management 12-9

Q

quadric tool
 positioning 6-32, 6-33
 visibility toggle 6-28

query
 At 1D Part Over Distance 7-66
 At Cursor Over Time 7-69
 At Element Over Time 7-67
 At IJK Over Time 7-68
 At Line Tool Over Distance 7-65
 At Maximum Over Time 7-70
 At Minimum Over Time 7-69
 At Node Over Time 7-67
 By Operating On Existing Queries 7-70
 dataset 6-21
 element 6-20
 interactive probe 7-72
 node 6-19
 over distance 7-62
 over time/distance 6-20
 part 6-20
 point 6-19
 Read From An External File 7-71
 Save Entity Query To dialog 7-64
 variable data over distance 7-62
 variable data over time 7-62

Query Dataset dialog 6-21

Query preferences 6-14

Query Prompt dialog 6-19

Query Text Information
 from EnSight Message window 2-52
 saving 2-51

Query/Plot Editor 7-62

Query/Plot Icon 7-62

Quit Confirmation dialog 2-32, 2-34
 opening 6-3

R

reader types 1-2

readers
 internal 2-2
 user defined 2-30

Rectangular to Cylindrical Vector variable 4-25

Relative Helicity variable 4-20

Release Notes
 opening 6-38

reset
 tools 9-7
 viewports 9-7

Reset Tools and Viewport(s) dialog 9-7

restoring context files 6-3

revolution tool
 positioning 6-34
 visibility toggle 6-29

rotation
 frame 9-9

global 9-3
 using function keys 9-4

S

save
 context files 6-3
 geometric entities in EnSight Gold format 6-3
 geometric information in VRML format 6-3
 open Print/Save Image dialog 6-2
 queried data 7-64
 Save Full Backup Archive dialog 6-3
 Save Geometric Entities dialog 6-3
 scenario files 6-3
 window positions 6-10

scale
 frame 9-11
 global 9-6

Scenario Files 2-40
 saving 6-3
 Web Publishing/Project Management 12-9

Separation/Attachment Lines 7-106
 access 7-108
 algorithms 7-107
 define variables 7-108
 display offset 7-109
 method 7-109
 references 7-107
 thresholding 7-107, 7-109
 velocity gradient tensor 7-106

Server-of-Servers 1-11
 Casefile format 11-133

SGI RGB output 2-45

shaded surface
 by part 8-28
 global 8-3
 global toggle 6-22
 shading type 8-28
 troubleshooting 6-23, 8-3

shape parameter 7-112

Shock Plot3d variable 4-25

Shock Surfaces/Regions 7-100
 access 7-103
 algorithms 7-101
 define variables 7-103
 method 7-104
 references 7-102
 thresholding 7-100, 7-104

skin friction coefficient 7-112

solution time definition 7-74

Solution Time Editor 7-75

Solution Time Icon 7-75

Sonic Speed variable 4-25

SOS (Server-of-Servers) 1-11

Spatial Mean variable 4-25

Speed (sonic) variable 4-25

Speed variable 4-25

sphere

- tool positioning 6-32
- tool visibility toggle 6-28
- static lighting toggle 6-26
- Stream Function variable 4-26
- structured data, loading parts from 2-10
- Subset Parts Creation Editor 7-91
- Swirl variable 4-26

T

- TARGA output 2-45
- telephone numbers for CEI 1-13
- Temperature
 - Normalized 4-26
 - Normalized (log of) 4-26
 - Normalized Stagnation 4-27
 - Stagnation 4-26
 - variable 4-26
- Temporal Mean variable 4-27
- tensor
 - data location 3-4
 - EnSight per node variable files 11-93
 - EnSight per-element variable files 11-65, 11-97
 - glyph part
 - create/update 7-93
 - symbol 3-3
 - variable
 - Component 4-27
 - Determinate 4-27
 - Eigenvalue 4-27
 - Eigenvector 4-27
 - Make 4-27
 - Tresca 4-27
 - VonMises 4-27
 - variable type 4-3
- Text Annotation Creation dialog 8-9
- thresholding
 - separation/attachment lines 7-107
 - shock surfaces/regions 7-100
 - vortex cores 7-96
- TIFF ouput 2-45
- time-dependent data 7-74
- tool
 - cone tool positioning 6-33
 - cone visibility toggle 6-28
 - cursor visibility toggle 6-27
 - cylinder tool positioning 6-32
 - cylinder visibility toggle 6-28
 - line tool positioning 6-30
 - line visibility toggle 6-27
 - plane tool positioning 6-31
 - plane visibility toggle 6-27
 - positioning cursor tool 6-29
 - quadric tool positioning 6-32, 6-33
 - quadric visibility toggle 6-28
 - reset 9-7
 - revolution tool positioning 6-34
 - revolution visibility toggle 6-29

- sphere tool positioning 6-32
- sphere visibility toggle 6-28
- Tool Tips 5-4
- Trace Animation Settings dialog 7-17
- transformation
 - frame 9-8
 - global band zoom 9-6
 - global definition 9-3
 - global rotate 9-3
 - global scale 9-6
 - global translate 9-4
 - global zoom 9-5
- Transformation Editor dialog
 - opening 9-1
- transient data 7-74
- translation
 - frame 9-10
 - global 9-4
- translators 2-31
- Tresca tensor variable 4-27
- Tresca variable 4-27

U

- Undefined variable 11-68
- Ungroup 3-19
- unstructured data, loading parts from 2-9
- User Defined Input preferences 6-14
- User Defined Readers 2-30
- User Manual
 - opening 6-38
- Utility Programs 12-1

V

- variable
 - activation 4-4
 - boundary layer variables 7-110
 - color palette 4-5
 - color palette editing 4-6
 - created
 - Area 4-13
 - Calculator operations 4-29
 - Case Map 4-13
 - Coefficient 4-13
 - Complex 4-13
 - Complex Argument 4-13
 - Complex Conjugate 4-13
 - Complex Imaginary 4-14
 - Complex Modulus 4-14
 - Complex Real 4-14
 - Complex Transient Response 4-14
 - Curl 4-14
 - Density 4-14
 - Divergence 4-15
 - Dynamic Pressure 4-23
 - Element to Node 4-15
 - Enthalpy 4-16

Entropy 4-17
 Filter Relative Helicity 4-20
 Flow 4-17
 Flow Rate 4-17
 Fluid Shear 4-18
 Fluid Shear Stress Max 4-18
 Force 4-19
 Gradient 4-19
 Gradient Approximation 4-19
 Gradient Tensor 4-19
 Gradient Tensor Approximation 4-19
 Helicity Density 4-19
 Iblanking Values 4-20
 Kinetic Energy 4-16
 Length 4-20
 Line Integral 4-20
 Log of Normalized Density 4-15
 Log of Normalized Pressure 4-23
 Log of Normalized Temperature 4-26
 Mach Number 4-20
 Make Vector 4-21
 Mass-Flux Average 4-21
 Math functions 4-28
 Max 4-21
 Min 4-21
 Moment about a point 4-21
 Moment Vector 4-22
 Momentum 4-22
 Node to Element 4-22
 Normal 4-22
 Normal Constraints 4-22
 Normalize Vector 4-22
 Normalized Density 4-15
 Normalized Enthalpy 4-16
 Normalized Pressure 4-23
 Normalized Stagnation Density 4-15
 Normalized Stagnation Enthalpy 4-17
 Normalized Stagnation Pressure 4-24
 Normalized Stagnation Temperature 4-27
 Normalized Temperature 4-26
 Offset Variable 4-22
 Pitot Pressure 4-24
 Pitot Pressure Ratio 4-25
 Pressure 4-23
 Pressure Coefficient 4-23
 Rectangular To Cylindrical Vector 4-25
 Relative Helicity 4-20
 Shock Plot3d 4-25
 Sonic Speed 4-25
 Spatial Mean 4-25
 Speed 4-25
 Stagnation Density 4-15
 Stagnation Enthalpy 4-16
 Stagnation Pressure 4-24
 Stagnation Pressure Coefficient 4-24
 Stagnation Temperature 4-26
 Stream Function 4-26
 Surface Integral 4-20
 Swirl 4-26
 Temperature 4-26
 Temporal Mean 4-27
 Tensor Component 4-27
 Tensor Determinate 4-27
 Tensor Eigenvalue 4-27
 Tensor Eigenvector 4-27
 Tensor Make 4-27
 Tensor Tresca 4-27
 Tensor VonMises 4-27
 Total Pressure 4-25
 Velocity 4-27
 Volume 4-27
 Volume Integral 4-20
 Vorticity 4-28
 creation of new 4-10
 Extended CFD Settings dialog 4-4, 6-17
 Feature Detail Editor 4-6
 query over distance 7-62
 query over time 7-62
 Query/Plot Editor 7-62
 types of 4-1
 Variables preferences 6-16
 Vector Arrow Create/Update Icon 7-44
 Vector Arrow Editor 7-44
 vector arrow part
 creating and updating 7-44
 definition 7-44
 density 7-46
 open Feature Detail Editor for 7-46
 Tip Settings dialog 7-45
 troubleshooting 7-47
 velocity gradient tensor
 separation/attachment lines 7-106
 vortex cores 7-96
 velocity magnitude gradient vector 7-111
 Velocity variable 4-27
 Version of EnSight in use 6-38
 view
 perspective/orthographic toggle 6-24
 View Mode 8-2
 View preferences 6-18
 view states
 saving/restoring 2-44
 viewport
 2D 8-21
 background color 8-19
 border color 8-20
 creation 8-18
 delete 8-23
 description 8-16
 move back 8-19
 move forward 8-18
 precise positioning 8-20
 reset 9-7
 standard layouts 8-18
 visibility 8-18
 visual attributes 8-21
 Viewport Background Color Attributes dialog 8-19
 Viewport Border Attributes dialog 8-20
 Viewport Location Attributes dialog 8-20

Viewport Special Attributes dialog 8-21
Volume Integral variable 4-20
Volume variable 4-27
VonMises variable 4-27
Vortex Cores 7-96
 access 7-98
 algorithms 7-97
 caveats 7-97
 define variables 7-98
 method 7-99
 references 7-97
 thresholding 7-96, 7-99
 velocity gradient tensor 7-96
Vorticity variable 4-28
VPort Mode 8-16
VRML format 6-3

W

Web Publishing 12-9
Window Position File format 10-2

X

XY Plot Data
 File format 11-139
 saving and loading 2-49
XYZ Box Clip 7-38
XYZ clip part
 Feature Detail Editor for 7-30
 interactive creation 7-29

Z

Z-Clip 9-17
 float with transform 9-18
zoom
 band global 9-6
 global 9-5

